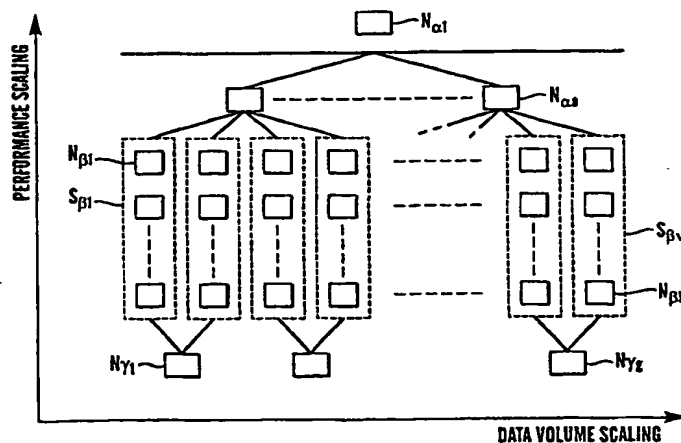




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(54) Title: A SEARCH ENGINE WITH TWO-DIMENSIONAL LINEARLY SCALABLE PARALLEL ARCHITECTURE



## (57) Abstract

In a search engine with two-dimensional scalable architecture for searching of a collection of documents (D), the search engine comprises data processing units which forms set of nodes (N) connected in a network, a first set of nodes comprising dispatch nodes ( $N_\alpha$ ), a second set of nodes search nodes ( $N_\beta$ ) and a third set of nodes indexing nodes ( $N_\gamma$ ). The search nodes ( $N_\beta$ ) are grouped in columns which via the network are connected in parallel between the dispatch nodes ( $N_\alpha$ ) and an indexing node ( $N_\gamma$ ). The dispatch nodes ( $N_\alpha$ ) are adapted for processing search queries and search answers, the search nodes ( $N_\beta$ ) are adapted to contain search software, at least some of the search nodes additionally comprising at least one search processor module (M) and the indexing nodes ( $N_\gamma$ ) are adapted for generally generating indexes I for the search software. Optionally, acquisition nodes ( $N_\delta$ ) provided in a fourth set of nodes and adapted for processing the search answers, thus relieving the dispatch nodes of this task. The two-dimensional scaling takes place respectively through a scaling of the data volume and a scaling of the search engine performance through a respective adaptation of the architecture.